

## **Faculty Development in Nuclear Engineering at LSU**

### **Executive Summary:**

Louisiana State University, in partnership with Entergy Corporation, and The Shaw Group, has recently initiated a Nuclear Power Workforce Development Program. This is a cohesive interdepartmental and Inter-collegiate effort, leveraging both industrial and academic support, which aims to develop a comprehensive program in Nuclear Engineering offered by the Mechanical Engineering Dept., and Health Physics offered by the Dept. of Physics & Astronomy, as related to the Nuclear Power industry. The development of a new curriculum and recruitment of students is currently underway, supported by the NRC Curriculum Development and Undergraduate Scholarship Programs. For the LSU Nuclear Power Workforce Development Program to attain long-term sustainability, the present proposal requests support for two Nuclear Engineering faculty positions, which will reside in the Mechanical Engineering Dept. at LSU to teach courses and develop graduate research as required to support the Nuclear Power Engineering Minor and related graduate degrees. The funds will be used to attract and retain highly qualified faculty members who will play an integral role in maintaining and advancing the program, and will collaborate with existing faculty in Mechanical Engineering and the Health and Medical Physics programs in the Physics & Astronomy Department. The positions will be leveraged using LSU funds and direct support from our industrial partners, who have also contributed financially to the overall program. An External Advisory Committee consisting of both industry representatives and academic peers has been formed and will aid in new hire selection, new faculty progress assessment, curriculum and industry internship program oversight, and the monitoring of students' progress, their job placement and success in industry. In addition, the professional growth of the new faculty members will be enhanced by research participation and interaction with our industrial partners.

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